## **STM** 3M™ Polyester Film Electrical Tape 1350F-1, 1350F-2 with Acrylic Adhesive

Data Sheet	May 2022
Product Description	3M <sup>™</sup> Polyester Film Electrical Tape 1350F is a yellow, white or black, UL recognized flame retardant, 2.5-mil (0.064 mm) or 3.5-mil (0.089 mm) thick tape composed of a 1-mil (0.025 mm) or 2-mil (0.051 mm) polyester film backing coated on one side with a non-corrosive, acrylic pressure-sensitive adhesive.
	<ul> <li>Commonly used in wrapping coils, capacitors, wire harnesses, transformers, shaded pole motors and fractional-horsepower motors</li> <li>Decabromo Diphenyl Oxide (DBDPO) Free</li> </ul>

- Adhesive requires no heat, moisture or other manner of preparation to affect application
- Designed for continuous operation not exceeding 130°C (266°F) per UL and CSA listings

Physical Properties	Value Imperial (Metric)	Electrical Properties	Value Imperial (Metric)
Color - Visual	Yellow, White, Black	Comparative Tracking Index (CTI) <sup>4</sup>	II
Adhesive	Acrylic	Dielectric Breakdown <sup>1</sup> - Minimum	5000 V
Backing	Polyester Film	Electrolytic Corrosion Factor <sup>3</sup>	1.0
Flame Retardant <sup>2</sup>	Pass	Insulation Resistance <sup>1</sup> – Minimum (High Humidity Method)	1x10 <sup>12</sup> Ω
Mechanical Properties	Value Imperial (Metric)		
Backing Thickness - Nominal	1 mil (0.025 mm)		
Total Thickness <sup>1</sup>	2.5 +/- 0.5 mils (0.064 mm +/- 0.013)		
Adhesion to Steel <sup>1</sup> - Minimum	25 oz/in (2.7 N/cm)		
Breaking Strength <sup>1</sup> - Minimum	20 lb/in (35 N/cm)		
Elongation <sup>1</sup> - Minimum	50%		

#### Properties / 1350F-1\*

#### Properties / 1350F-2

Physical Properties	Value Imperial (Metric)	Electrical Properties	Value Imperial (Metric)
Color - Visual	Yellow, White, Black	Comparative Tracking Index (CTI) <sup>4</sup>	Illa
Adhesive	Acrylic	Dielectric Breakdown <sup>1</sup> - Minimum	7000 V
Backing	Polyester Film	Electrolytic Corrosion Factor <sup>3</sup>	1.0
Flame Retardant <sup>2</sup>	Pass	Insulation Resistance <sup>1</sup> – Minimum (High Humidity Method)	1x10 <sup>12</sup> Ω
Mechanical Properties	Value Imperial (Metric)		
Backing Thickness - Nominal	2 mil (0.051mm)		
Total Thickness <sup>1</sup>	3.5 +/- 0.5 mils (0.089 +/- 0.013 mm)		
Adhesion to Steel <sup>1</sup> - Minimum	25 oz/in (2.7 N/cm)		
Breaking Strength <sup>1</sup> - Minimum	40 lb/in (70 N/cm)		
Elongation <sup>1</sup> - Minimum	50%		

Notes:

1. ASTM D1000 Test Method - properties measured at room temperature 73°F (23°C) unless otherwise stated

2. UL Recognized Flame Retardant per UL510A Standard

3. 3M Test Method ETM-54001 - 1.0 equates to no corrosion observed

4. UL Recognized to meet UL840 Material Group when tested to IEC 60112 on both sides of the tape

Agency Approvals & Self Certifications	<ul> <li>UL Component Recognized: UL510A Standard, Category OANZ2, File No. E17385</li> <li>CSA Certified: Standard C22.2 No. 66, File No. 093411, Class 9052-30</li> <li>Self-certified to Commercial Item Description: A-A-59770A (2007) Type V (MF 2.5)*</li> <li>For Regulatory information including RoHS, REACH, please visit <u>www.3M.com/regs</u></li> </ul>	
Shelf Life & Storage	This product has a 5-year shelf life (from date of manufacture) when stored in humidity- controlled storage (50°F/10°C to 80°F/27°C and <75% relative humidity).	
Availability	3M™ Polyester Film Electrical Tape 1350F-1, 1350F-2 available from 3M authorized distributors / converters	
	Also available from <u>www.3M.com/oem</u> or call 1.800.676.8381	

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